	(3	Hours)	[Total Marks: 80
N.B.: 1) All questions are compulsor	ry	
	Figures to the right indicat	-	
) Draw neat, labeled diagram	(A)	
01	A (1 C 11 ·		
	Answer the following: -		16
	Write the composition and f	\(\frac{1}{2}\lambda \frac{1}{2}\lambda \frac{1}{2}	al Tluid.
	Enlist any four hormones of		
	Define: (a) Total lung capac	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	icity.
	Enlist any four symptoms of		
	Write the functions of lacrin		
	Describe Cushing's syndron	(
	Define atrophy and give one	5' \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
V111	Enlist the triggers for asthm		
Q.1B)	Answer the following: -		4
i.	and and	muscles present in	n iris are responsible for
	change in pupil diameter.		
ii.	Fight and flight response is	elicited by	system of ANS.
iii.	Aldosterone is a	(Mineralocor	ticoid / Glucocorticoid).
ivenzyme causes break down of Acetylcholine in syna			
0.2 -)			
Q.2. a)	Answer the following: -		8
\2\f	Explain the causes of cell in		
	7, O, 57, 63, 62, 12, 13, 14, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	ilary.	
3. 3. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	or Differentiate between apopt	ocic and necrocic	
	Differentiate between apopt	osis and necrosis.	
	Explain the cytomorphologi	cal changes in cancer	
24,60	or	car changes in cancer.	
	Explain the process of meta-	stacic	
16,46	Explain the process of incu	busis.	
Q.2.B)	Answer any one the followi	ing	4
	Describe the factors affecting	g the biological effects	s of radiation
TA OF VA	Explain the biological effect	-	
200		IIIII Iuuiuii0II.	

Q.3. A	A) Answer <u>any two</u> the following:	8
i.	Give an account of parts of the brain stem and their functions.	
ii. 	Write a note on cranial nerves.	
iii.	Discuss the structure and the functional classification of the neurons.	
Q.3.I	B) Discuss the pathophysiology of (any one)	40
i. ii.	Stroke Alzheimer's disease	
Q.4. <i>A</i>	A) Answer <u>any two</u> the following:	8
i.	Discuss transport of oxygen in blood.	7000
ii.	Explain mechanism of external respiration.	
iii.	Draw neat and labeled diagram of bronchial tree.	
Q.4.I	3) Discuss the pathophysiology of (any one)	4
i. ii.	Respiratory acidosis and alkalosis Bronchitis	
Q.5.A	A) Answer <u>any two</u> the following:	8
i. ii. iii.	Explain calcium homeostasis. Comment on physiological role of thyroid hormones. Explain in detail role of posterior pituitary.	
Q.5.I	3) Discuss the pathophysiology of (any one)	4
i.	Grave's Disease Addison's disease	
Q.6. <i>A</i>	A) Answer <u>any two</u> the following:	8
i	Discuss the anatomical features of the middle ear and its role in hearing.	
11.0	Write a note on physiology of gustation.	
iii.	Discuss the structure of the skin.	
Q.6.I	B) Answer <u>any one</u> the following	4
1.0	State the effect of acetylcholine on the following: bronchi, heart, salivary pupil of the eye	y gland,
ii.	Distinguish between sympathetic and parasympathetic nervous system.	
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